

TRAFFIC ENGINEER

NATURE OF WORK

This is highly responsible professional transportation planning/traffic engineering work assisting in the administration and coordination of various transportation activities in the Engineering Services Division.

Work involves responsibility for directing, coordinating and supervising the work of professional and technical employees engaged in the survey, planning, design, operation and maintenance programs of the Engineering Services Division. Work involves the application of professional transportation planning/traffic engineering principles in order to achieve program objectives assigned to the division. General supervision is received from the City Engineer and/or Director of Public Works and Utilities with work being reviewed through results obtained, the evaluation of reports, and conferences. An employee of this class is expected to exercise considerable initiative and judgment within the framework of established guidelines and policies. Supervision is exercised over professional and technical employees.

EXAMPLES OF WORK PERFORMED

Supervises and coordinates operations in planning and design functions, such as observation surveys of traffic conditions, analysis of findings, preparation of plans, drawings and estimates for changes and improvements.

Reviews and provides traffic operation input for contracts for new construction or required maintenance.

Supervises the design, installation and operational activities of new traffic signal systems.

Develops and implements public information and education programs which may include public presentations; attends public hearings on behalf of the City in order to answer questions regarding public works and utilities projects, specifically as they relate to transportation planning/traffic engineering and street operation.

Assists in the management of various transportation improvement projects to ensure safety, efficiency, public involvement, fiscal responsibility and conformance with local, regional and national standards.

Prepares and reviews traffic impact studies and sub-area studies to identify transportation improvements needed for changes in land uses; prepares conceptual plans and cost estimates for negotiation of transportation agreements with developers.

Manages the study phase of any transportation improvement project to ensure the successful completion of any and all environmental documents.

Responds to public requests for information to include advice on the establishment of improvement districts, future street widening projects, sidewalks and bikeways, land development policies, drainage problems and traffic congestion and signalization; makes presentations to schools, neighborhood groups, benevolent societies and public service and business organizations.

Coordinates the preparation of specifications; interprets special provisions and plans; approves traffic control and finished work; processes pay estimates and accepts work at the end of the warranty period; initiates change orders and authorizes additional work; suspends work when necessary and enforces contract provisions.

Assists the City Engineer and/or Director of Public Works and Utilities in the long range planning of projects, and in the preparation of annual budgets for the Engineering Services Division.

Assists the City Engineer and/or Director of Public Works and Utilities in the overall supervision of the Engineering Services Division.

Performs related work as required.

DESIRABLE KNOWLEDGES, ABILITIES AND SKILLS

Thorough knowledge of transportation planning/traffic engineering principles and practices.

Thorough knowledge of the principles and practices of modern traffic engineering survey and study methods.

Thorough knowledge of statistical analysis, geometric design, and other engineering mathematics as they relate to traffic engineering.

Considerable knowledge of the design, operation, uses and limitations of electrical and other traffic control devices.

Considerable knowledge of traffic flow theory and signal timing practices.

Considerable knowledge of all applicable Federal, State and local laws.

Ability to interpret construction specifications and designs and make construction and material estimates.

Ability to prepare comprehensive correspondence and reports, and to speak fluently before groups.

Ability to establish and maintain effective working relationships with the Mayor's office, City Council, Planning Commission, County Board, media, co-workers and the general public.

DESIRABLE TRAINING AND EXPERIENCE

Graduation from an accredited four year college or university with major course work in transportation/traffic engineering plus work experience in a progressively responsible professional transportation/traffic engineering position including experience with a metropolitan city or metropolitan planning organization and experience in a supervisory capacity.

MINIMUM QUALIFICATIONS

Graduation from an accredited four year college or university with major course work in engineering and experience in a progressively responsible transportation/traffic engineering position and some experience in a supervisory capacity; or any equivalent combination of training and experience which provides the desirable knowledges, abilities and skills.

NECESSARY SPECIAL REQUIREMENT

Registration as a Professional Engineer by the State of Nebraska.

Approved by: _____
Department Head Personnel Director

1/83
Revised & Title Change: 8/2000

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